

Docket No.: PF-0622 USN
USSN: 09/831,088
Exhibit. No.A

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- ☐ PF-0622-USN_SEQ_ID_NO:9
☐ gi_4165017_ACS3_Minekura_et_al.

CLUSTAL W (1.7) Multiple Sequence Alignments

Sequence format is Pearson

Sequence 1: PF-0622-USN_SEQ_ID_NO_9 4027 bp

Sequence 2: gi_4165017_ACS3_Minekura_et_al 2905 bp

Start of Pairwise alignments

Aligning...

Sequences (1:2) Aligned. Score: 99

Start of Multiple Alignment

There are 1 groups

Aligning...

Group 1: Sequences: 2 Score:54880

Alignment Score 19234

CLUSTAL-Alignment file created [baaFPaqZw.aln]

CLUSTAL W (1.7) multiple sequence alignment

PF-0622-USN_SEQ_ID_NO_9	GCGCCGGGCTGCGACACTGCAGTTGTCTACGCGCCGGGGCCGGGACGAG
gi_4165017_ACS3_Minekura_et_al	-----

PF-0622-USN_SEQ_ID_NO_9	GAGGCGTTGGACGGGGTCGCATACGTTTCGTCCTCGCATTGCGGCCCGG
gi_4165017_ACS3_Minekura_et_al	-----

PF-0622-USN_SEQ_ID_NO_9	ACAGCTGCGCCAGGATCCCCGGGCGGCGGCGGGGCGTGAACGCTCTGG
gi_4165017_ACS3_Minekura_et_al	-----

PF-0622-USN_SEQ_ID_NO_9	GGCTCAGCCAGGCCTGCGCGGGCCCGATGCCGGAGGAACCCGGACTCCGG
gi_4165017_ACS3_Minekura_et_al	-----

PF-0622-USN_SEQ_ID_NO_9	CGTAGCGGTTTTGACACAAGGGCGCATATCTTCAAAGCACCTAGTACCTC
gi_4165017_ACS3_Minekura_et_al	-----

PF-0622-USN_SEQ_ID_NO_9	CTACCATTGTCAACTGATACAGAATTCGTTGTTGGGAAGGACTGGGGAAA
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PF-0622-USN_SEQ_ID_NO_9      CCTTAGCCTCTTGATCGAGGAAGATTCTCGCTGAAGTCTGTTAATTCTAC
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PF-0622-USN_SEQ_ID_NO_9      TTTTGTGAGTACTTATGAATAACCACGTGTCTTCAAACCATCTACCATGA
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PF-0622-USN_SEQ_ID_NO_9      AGGAAGATGAAGTACAACCAAATGGAAAAATTTTAAAAAGGTTATTCCT
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PF-0622-USN_SEQ_ID_NO_9      GGACAGTATAATTGGCTTTCCTATGAAGATGTCTTGTTCGAGCCTTTAA
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PF-0622-USN_SEQ_ID_NO_9      CCATCTTCTGTGAGACCAGGGCCGAGTGGATGATAGCTGCACAGGCGTGT
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gi_4165017_ACS3_Minekura_et_al GTAAAGAACTCTTACAAACAAAGTTGAAGGATATAGTTTCTTTGGTCCCA
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PF-0622-USN_SEQ_ID_NO_9      CGCCTGCGGCACATCATCACTGTTGATGGAAAGCCACCGACCTGGTCCGA
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PF-0622-USN_SEQ_ID_NO_9      GTTCCCCAAGGGCATCATTTGTGCATACCATGGCTGCAGTGGAGGCCCTGG
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PF-0622-USN_SEQ_ID_NO_9      GAGCCAAGGCCAGCATGGAAAACCAACCTCATAGCAAACCATTTGCCCTCA
gi_4165017_ACS3_Minekura_et_al GAGCCAAGGCCAGCATGGAAAACCAACCTCATAGCAAACCATTTGCCCTCA
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PF-0622-USN_SEQ_ID_NO_9      GATATTGCAGTAATCATGTACACAAGTGGATCCACAGGACTTCCAAAGGG
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PF-0622-USN_SEQ_ID_NO_9      AGTCATGATCTCACATAGTAACATTATTGCTGGTATAACTGGGATGGCAG
gi_4165017_ACS3_Minekura_et_al AGTCATGATCTCACATAGTAACATTATTGCTGGTATAACTGGGATGGCAG
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PF-0622-USN_SEQ_ID_NO_9      AAAGGATTCCAGAAGTCTAGGAGAGGAAGATGTCTACATTGGATATTTGCCT
gi_4165017_ACS3_Minekura_et_al AAAGGATTCCAGAAGTCTAGGAGAGGAAGATGTCTACATTGGATATTTGCCT
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PF-0622-USN_SEQ_ID_NO_9      CTGGCCCATGTTCTAGAAATTAAGTGCTGAGCTTGCTGTCTTTCTCACGG
gi_4165017_ACS3_Minekura_et_al CTGGCCCATGTTCTAGAAATTAAGTGCTGAGCTTGCTGTCTTTCTCACGG
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PF-0622-USN_SEQ_ID_NO_9      ATGCCGCATTGGTTACTCTTCACCACAGACTTTAGCAGATCAGTCTTCAA
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PF-0622-USN_SEQ_ID_NO_9      AAATTAAAAAAGGAAGCAAAGGGGATACATCCATGTTGAAACCAACACTG
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PF-0622-USN_SEQ_ID_NO_9      ATAATTACAAAATGGAACAGATTTCAAAGGACGTAATACTCCACTGTGC
gi_4165017_ACS3_Minekura_et_al ATAATTACAAAATGGAACAGATTTCAAAGGACGTAATACTCCACTGTGC
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PF-0622-USN_SEQ_ID_NO_9      GACAGCTTTGTTTTCCGAAAGTTCGAAGCTTGCTAGGGGGAAATATTCCG
gi_4165017_ACS3_Minekura_et_al GACAGCTTTGTTTTCCGAAAGTTCGAAGCTTGCTAGGGGGAAATATTCCG
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PF-0622-USN_SEQ_ID_NO_9      TCTCCTGTTGTGTGGTGGCGCTCCACTTTCTGCAACCACGCAGCGATTCA
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gi_4165017_ACS3_Minekura_et_al AAAAGCTGATTTCTCTGAAGATGAAAATGGACAAAGGTGGCTCTGTACTG
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gi_4165017_ACS3_Minekura_et_al ATGCAAACAGTTATCATTTCTTATGTCATTGGATTGTTGTGTGCCAAATCAA
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gi_4165017_ACS3_Minekura_et_al TGTTTCAGTTTGTAACTTTTTAAAAGTTTGGATGTATAGAGGGATAAATAG
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gi_4165017_ACS3_Minekura_et_al TGCATTTGAGAGAAATAAATATACCCATACTTATGTTTAAAGAAGTTGAG
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PF-0622-USN_SEQ_ID_NO_9 gi_4165017_ACS3_Minekura_et_al	TTTGTAATTCAGAAACCTTGCTTGTGTGATACATAGTAAGTCTCTTCATT -----
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PF-0622-USN_SEQ_ID_NO_9 gi_4165017_ACS3_Minekura_et_al	CCAATTAAGATGTGCTCAAATCAGGACTTAAATCATAGGCACCACATTTT -----
PF-0622-USN_SEQ_ID_NO_9 gi_4165017_ACS3_Minekura_et_al	TCATGTCAGACTAGTTACTTTGTTGATTCTCAGTTACTGTAGGCATCAAA -----
PF-0622-USN_SEQ_ID_NO_9 gi_4165017_ACS3_Minekura_et_al	AGGCAAAAATCAAAAAAAAAAAAAAAGG -----

Submit sequences to: **IncyteGenomics**